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Notice of Allowability	Application No.	Applicant(s)	
	10/658,106	WATANABE ET AL	<u>. </u>
	Examiner	Art Unit	
	Ardith E. Hertzog	1754	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. \(\square\) This communication is responsive to \(\frac{all papers filed 9/26/05}{\).			
2. The allowed claim(s) is/are <u>9-21, now numbered 1-13, respectively</u> .			
 Acknowledgment is made of a claim for foreign priority una a) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have international Bureau (PCT Rule 17.2(a)). Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 	been received. been received in Application No cuments have been received in this of this communication to file a reply	national stage applica	
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.			
 CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers (a) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in the state of the stat	on's Patent Drawing Review (PTO- s Amendment / Comment or in the C .84(c)) should be written on the drawin	office action of	e back) of
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIAL r	nust be submitted.	Note the
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	5. Notice of Informal P 6. Interview Summary Paper No./Mail Dat 7. Examiner's Amendr 8. Examiner's Stateme 9. Other	(PTO-413), te nent/Comment	·

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REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: In view of the "Amendment" filed September 26, 2005, it is **agreed** that this application is in condition for allowance. In particular, applicant's arguments concerning the prior art applied in the prior Office action (i.e., that mailed June 22, 2005) have been carefully considered and, **with respect to the claims as amended**, found **persuasive**. In particular, it is **agreed** that:

According to Uehara [(i.e., JP 200103101 A)], when the grinding process is stopped, the production of hydrogen gas is suspended automatically. (See Uehara paragraph 0021.) Therefore, apparently Uehara did not appreciate that **autonomous** production of hydrogen would occur. Furthermore Uehara makes a point that it is desirable to remove suspended matter by circulating water with a pump. (Uehara paragraph 0031.) This indicates that Uehara is relying on generation of hydrogen at the surface of the block being ground, and is not waiting for **autonomous** generation of hydrogen to occur **within the particles**.

In short, the present inventors are collecting hydrogen generated autonomously after a time, whereas Uehara et al. are discarding the particles before autonomous generation has a chance to occur. (remarks accompanying amendment at pp. 5-6, emphasis added)

Thus, as the prior art of record—including that newly cited herewith—fails to teach or to have suggested methods of producing hydrogen gas, including continued autonomous evolution of said gas within microscopic cracks produced in the surfaces of metallic particles, per the new instant independent claim 9, applicant's claims are now considered allowable over the prior art of record. The newly cited references, US 6,638,493 and its parent US 6506,360, are considered pertinent to applicant's disclosure yet less material than Uehara; they have been cited simply for

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their discussion of the state of art re hydrogen generation and aluminum oxide production (see "Background of the Invention" section, especially in US 6,638,493).

2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Conclusion

- 3. Any inquiry concerning this communication should be directed to Ardith E. Hertzog at 571-272-1347. The examiner can normally be reached on Monday through Friday (from about 7:30 a.m. 3:30 p.m.).
- 4. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley S. Silverman, can be reached at 571-272-1358. The central fax number for all communications is now 571-273-8300.
- 5. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. For any questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TECHNOLOGY CENTER 1700

December 5, 2005